

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
28 October 2004 (28.10.2004)

PCT

(10) International Publication Number
WO 2004/091334 A3

(51) International Patent Classification⁷: **A44C 9/02**

[US/US]; 7102 Southwest 10th Avenue, Portland, OR 87219 (US).

(21) International Application Number:

PCT/US2004/010986

(74) Agents: FANUCCI, Allan, A. et al.; Winston & Strawn LLP, Patent Department, 1700 K Street, N.W., Washington, DC 20006-3817 (US).

(22) International Filing Date: 9 April 2004 (09.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

10/411,619	10 April 2003 (10.04.2003)	US
60/473,041	23 May 2003 (23.05.2003)	US
60/473,040	23 May 2003 (23.05.2003)	US

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(71) Applicant and

(72) Inventor: KRETCHMER, Steven [US/US]; Route 23A, P.O.Box G, Palenville, NY 12463 (US).

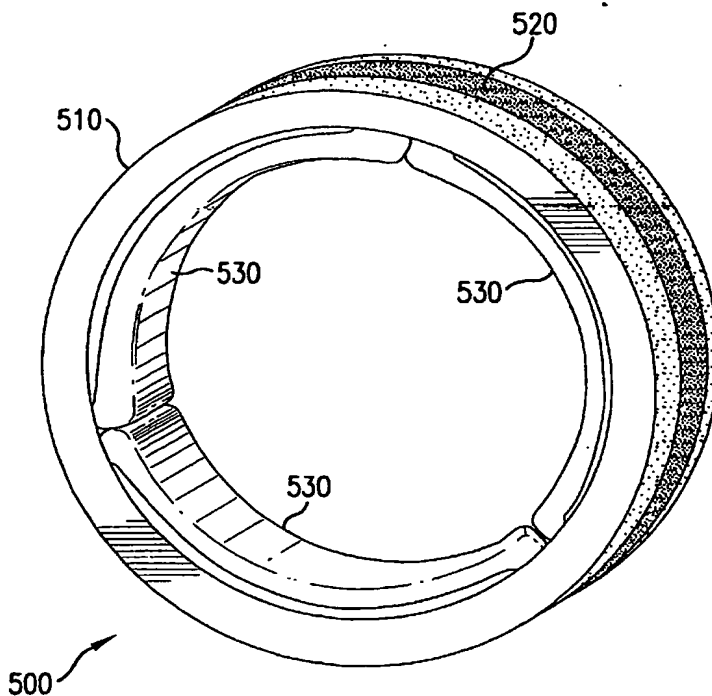
(72) Inventor; and

(75) Inventor/Applicant (for US only): STUPAK, Joseph

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),

[Continued on next page]

(54) Title: MAGNETICALLY ATTRACTABLE COMPONENTS FOR JEWELRY ARTICLES



(57) Abstract: A magnetic jewelry-forming component for preparing a jewelry article. The article includes a body member configured and dimensioned in an ornamental shape and having a first magnetizable portion for attractive or repulsive magnetic association with at least one other magnetic jewelry-forming component and at least one further element for magnetically coupling to the at least one other magnetic jewelry-forming component. Advantageously, the body member has a magnetic strength that can be overcome by a person's hand strength such that the body member and at least one other magnetic jewelry-forming component can be placed in different positions relative to each other. Also, the further element includes (a) a second magnetized portion that has a polarity that is different from that of the at least one other magnetic jewelry-forming component so that it is magnetically attracted thereto or (b) a retaining structure that prevents complete separation of the body member from the at least one other magnetic jewelry-forming component when the first magnetized portion of the body member has a polarity that is the same as that of the at least one other magnetic jewelry-forming

component so that it is magnetically repulsed therefrom. These components enable the jewelry article to be self-sizing by repulsion or attraction, to include the use of multiple fields to reduce damaging magnetic emanations from the article, or to control position or motion of the components in the article to provide highly desirable and unusual jewelry articles.



Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(88) Date of publication of the international search report:
23 June 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/10986

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A44C 9/02

US CL : 63/3

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 63/3, 5.1,6,7,9,15,15.1,15.2,15.3,15.4,15.45,15.5,15.65,15.7; 446/92

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
none

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
none

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 3 263,444 (DI CROCE) 02 August 1966 (02.08.1966) see figure 3, col.1, lines 60-67, col. 2, lines 12-15 and lines 64-end, col. 3, lines 1-7.	1-6,8-11,20-28,30-32,35,38-40 7
--- Y	US 6,116,053 (SIENBENBERG) 12 September 2000 (12.09.2000) see figure 8, col. 1, lines 40-45, lines 54-55 and col. 2, lines 51-62.	7

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

08 March 2005 (08.03.2005)

Date of mailing of the international search report

12 APR 2005

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

Jack W. Lavinder

Telephone No. 703-308-1134